

PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/762,926

DATE: 02/27/2001

TIME: 14:54:35

Input Set : A:\seqlist.txt

Output Set : N:\CRF3\02272001\I762926.raw

#5  
PCT  
10.11.01  
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C--> 11 <141> CURRENT FILING DATE: 2001-02-14
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15 <151> PRIOR FILING DATE: 1998-08-18
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56 agtgcggact tcggcgatta ttctatgccg ttccgccagc attcgcgcac acaccgtatg      1800
57 cccaacatcc aagaaatgta tttttcccaa atcggcgact ccygcgttca caccgcctta      1860

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62 ggttttgagt tggagctgaa ttacgattat gggcgttttt tcaccaacct ttcttaegcc 2160
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67 accaacgggg gaaataccag caatgtccg caactgggca agcgttccat caaacaacc 2460
68 gaaacccttg ccgcacgac tttgattttt gatttttacg ccgcttacga gccgaagaaa 2520
69 aaccttattt tccgcgcga agtcaaaaa ctgttcgaca ggcgttatat cgtccgcctc 2580
70 gatgcgggca atgatcggc aacgcagcgt tattacagtt cgttcgaccc gaaagacaag 2640
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86 35 40 45
87 Arg Val Pro Lys Asp Lys Lys Val Phe Thr Asp Ala Arg Ala Val Ser
88 50 55 60
89 Thr Arg Gln Asp Ile Phe Lys Ser Ser Glu Asn Leu Asp Asn Ile Val
90 65 70 75 80
91 Arg Ser Ile Pro Gly Ala Phe Thr Gln Gln Asp Lys Ser Ser Gly Ile
92 85 90 95
93 Val Ser Leu Asn Ile Arg Gly Asp Ser Gly Phe Gly Arg Val Asn Thr
94 100 105 110
95 Met Val Asp Gly Ile Thr Gln Thr Phe Tyr Ser Thr Ser Thr Asp Ala
96 115 120 125
97 Gly Arg Ala Gly Gly Ser Ser Gln Phe Gly Ala Ser Val Asp Ser Asn
98 130 135 140
99 Phe Ile Ala Gly Leu Asp Val Val Lys Gly Ser Phe Ser Gly Ser Ala
100 145 150 155 160
101 Gly Ile Asn Ser Leu Ala Gly Ser Ala Asn Leu Arg Thr Leu Gly Val
102 165 170 175
103 Asp Asp Val Val Gln Gly Asn Asn Thr Tyr Gly Leu Leu Lys Gly
104 180 185 190
105 Leu Thr Gly Thr Asn Ser Thr Lys Gly Asn Ala Met Ala Ala Ile Gly
106 195 200 205
107 Ala Arg Lys Trp Leu Glu Ser Gly Ala Ser Val Gly Val Leu Tyr Gly
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110 225 230 235 240
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113 Arg Tyr Phe Val Gln Gln Gly Gly Leu Lys Phe Asn Ser Asn Ser Gly
114 260 265 270
115 Lys Trp Glu Arg Asp Phe Gln Arg Pro Tyr Trp Lys Thr Lys Trp Tyr
116 275 280 285
117 Gln Lys Tyr Asn Asp Pro Gln Glu Leu Gln Lys Tyr Ile Glu Gly His
118 290 295 300
119 Asp Lys Ser Trp Arg Glu Asn Leu Ala Pro Gln Tyr Asp Ile Thr Pro
120 305 310 315 320
121 Ile Asp Pro Ser Ser Leu Lys Gln Gln Ser Ala Gly Asn Leu Phe Lys
122 325 330 335
123 Leu Glu Tyr Asp Gly Val Phe Asn Lys Tyr Thr Ala Gln Phe Arg Asp
124 340 345 350
125 Leu Asn Thr Lys Ile Gly Ser Arg Lys Ile Ile Asn Arg Asn Tyr Gln
126 355 360 365
127 Phe Asn Tyr Gly Leu Ser Leu Asn Ser Tyr Ala Asn Leu Asn Leu Thr
128 370 375 380
129 Ala Ala Tyr Asn Ser Gly Arg Gln Lys Tyr Pro Lys Gly Ser Lys Phe
130 385 390 395 400
131 Thr Gly Trp Gly Leu Leu Lys Asp Phe Glu Thr Tyr Asn Asn Ala Lys
132 405 410 415
133 Ile Leu Asp Leu Asn Asn Thr Ala Thr Phe Arg Leu Pro Arg Glu Thr
134 420 425 430
135 Glu Leu Gln Thr Thr Leu Gly Phe Asn Tyr Phe His Asn Glu Tyr Gly
136 435 440 445
137 Lys Asn Arg Phe Pro Glu Glu Leu Gly Leu Phe Phe Asp Gly Pro Asp
138 450 455 460
139 Gln Asp Asn Gly Leu Tyr Ser Tyr Leu Gly Arg Phe Lys Gly Asp Lys
140 465 470 475 480
141 Gly Leu Leu Pro Gln Lys Ser Thr Ile Val Gln Pro Ala Gly Ser Gln
142 485 490 495
143 Tyr Phe Asn Thr Phe Tyr Phe Asp Ala Ala Leu Lys Lys Asp Ile Tyr
144 500 505 510
145 Arg Leu Asn Tyr Ser Thr Asn Thr Val Gly Tyr Arg Phe Gly Gly Glu
146 515 520 525
147 Tyr Thr Gly Tyr Tyr Gly Ser Asp Asp Glu Phe Lys Arg Ala Phe Gly
148 530 535 540
149 Glu Asn Ser Pro Thr Tyr Lys Lys His Cys Asn Gln Ser Cys Gly Ile
150 545 550 555 560
151 Tyr Glu Pro Val Leu Lys Lys Tyr Gly Lys Lys Arg Ala Asn Asn His
152 565 570 575
153 Ser Val Ser Ile Ser Ala Asp Phe Gly Asp Tyr Phe Met Pro Phe Ala
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155 Ser Tyr Ser Arg Thr His Arg Met Pro Asn Ile Gln Glu Met Tyr Phe
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159 Ala Asn Thr Trp Gln Phe Gly Phe Asn Thr Tyr Lys Lys Gly Leu Leu
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161 Lys Gln Asp Asp Thr Leu Gly Leu Lys Leu Val Gly Tyr Arg Ser Arg
162      645      650      655
163 Ile Asp Asn Tyr Ile His Asn Val Tyr Gly Lys Trp Trp Asp Leu Asn
164      660      665      670
165 Gly Asn Ile Pro Ser Trp Val Ser Ser Thr Gly Leu Ala Tyr Thr Ile
166      675      680      685
167 Gln His Arg Asn Phe Lys Asp Lys Val His Lys His Gly Phe Glu Leu
168      690      695      700
169 Glu Leu Asn Tyr Asp Tyr Gly Arg Phe Phe Thr Asn Leu Ser Tyr Ala
170 705      710      715      720
171 Tyr Gln Lys Ser Thr Gln Pro Thr Asn Phe Ser Asp Ala Ser Glu Ser
172      725      730      735
173 Pro Asn Asn Ala Ser Lys Glu Asp Gln Leu Lys Gln Gly Tyr Gly Leu
174      740      745      750
175 Ser Arg Val Ser Ala Leu Pro Arg Asp Tyr Gly Arg Leu Glu Val Gly
176      755      760      765
177 Thr Arg Trp Leu Gly Asn Lys Leu Thr Leu Gly Gly Ala Met Arg Tyr
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179 Phe Gly Lys Ser Ile Arg Ala Thr Ala Glu Glu Arg Tyr Ile Asp Gly
180 785      790      795      800
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182      805      810      815
183 Ile Lys Gln Thr Glu Thr Leu Ala Arg Gln Pro Leu Ile Phe Asp Phe
184      820      825      830
185 Tyr Ala Ala Tyr Glu Pro Lys Lys Asn Leu Ile Phe Arg Ala Glu Val
186      835      840      845
187 Lys Asn Leu Phe Asp Arg Arg Tyr Ile Asp Pro Leu Asp Ala Gly Asn
188      850      855      860
189 Asp Ala Ala Thr Gln Arg Tyr Tyr Ser Ser Phe Asp Pro Lys Asp Lys
190 865      870      875      880
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192      885      890      895
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199 <211> LENGTH: 2769
200 <212> TYPE: DNA
201 <213> ORGANISM: Bacteria
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255 <213> ORGANISM: Bacteria
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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date